## Beach Renourishment

The Town of Hilton Head Island recognizes that its beaches are a vital asset to its residents and the Island's economy. As part of the Town's long-term strategy for beach restoration and maintenance, the Town plans to begin its 2016 \$20.7 million renourishment project in February 2016. The source of the project funding is a longstanding 2% fee imposed on overnight lodging.

The 2016 renourishment of the Atlantic oceanfront shoreline will be similar to the projects constructed in 1990, 1997 and 2006, with the exception that no sand will be placed between The Folly and The Westin Resort. The project construction is expected to last about 5 months. Because the project is extremely large, construction operations must proceed around the clock and will, on average, move along the shoreline at a rate of about 200 to 300 feet per day.

For more information regarding this project including maps, photos, FAQ's, updates and more, please visit our website at www.hiltonheadislandsc.gov to view this project listed under "Major Initiatives."



In preparation for the upcoming 2016 beach renourishment project, the Town has created a new e-subscription service category for subscribers to receive project updates via

email and/or text notifications. Please visit our website at www.hiltonheadislandsc.gov to sign-up for this free service and stay upto-date on the latest beach renourishment project information as well as a variety of other topics.



Late February,

Sand from ←

**Barrett Shoals** 

**Borrow Area** 

March

the right sand consistency and quality to be used on the beaches. BEFORE In the Town of Hilton Head Island's original survey plans, through core the Town created templates AFTER testing to have The contractors pump the of beachfront that it wanted optimum quality slurry onto the beach, and then push the sand into the "template" to re-estab

\* Reprinted with permission from The Island Packet

The basics to replenishing Hilton Head Island beaches

Three years before the start date engineers began surveying the ocean floor off the coast of Hilton Head Island to find which areas had

"Template"

not to scale

area to be filled

NOTE: Artist's rendering

A. Dredge is placed offshore above a sand-borrow site. A rotating device called a cutterhead cuts into the ocean floor, drawing sand into a pipe.

B.Tugs and Global Positioning Satellite data are used to keep the dredge in place while taking sand from predetermined areas in the

C. The sand and sea-water slurry travels through a 30-inch-diameter pipe.

D. As the distance from the borrow site increases, a jack-up booster will maintain optimum output.

E. A survey crab makes sure the placement of sand takes into account current survey information.

F. The slurry is passed through a diffuser, spraying the mixture upward on the beach. Dikes allow the salt water to return while the sand settles on the beach.

G. Bulldozers push the sand into the right spots.

H. More pipes are added to the line so the project can progress along the beach.

Sand from Joiner Shoals **Borrow Area** 

> Join our Facebook page for project updates http://facebook.com/TownofHiltonHeadIslandSC



NOTE: The beach nourishment areas and shoals are approximations. The order of beach renourishment may alter, and start dates are subject to change.